PROVISION ISR

Now you can see!

EN

ES

Digital CCTV Camera

Effio-E Dome

USER MANUAL

English / Spanish

www.provision-isr.com

www.provision-isr.com

RoHS Compliant

FC

CE

Content

EN English Manual 1

ES Manual en Español 34

Note: Only professional technicians is allowed to open the front or back cover of this camera.

Note:
In order to avoid electrical shock or fire, please use proper power according to the manual.

NotA: Solo técnicos profesionales pueden abrir las cubiertas frontal o posterior de esta cámara.

Nota:
Para prevención de choques electricos o fuego, por favor use la corriente apropiada, acorde con el manual.

Content

Features 2
Precautions 2
Structure and Components 3
System connection 4
OSD Menu 5
OSD Menu Operation 7
1) LENS 7
2) SHUTTER/AGC 9
3) WHITE BAL 13
4) BACKLIGHT 16
5) PICT ADJUST 17
6) ATR (Adaptive Tone Reproduction) 19
7) PRIVACY 21
8) DAY/NIGHT 22
9) NR 25
10) CAMERA ID 27
11) SYNC 29
12) LANGUAGE 30
13) CAMERA RESET 31
Specifications 32

Note: Only professional technicians is allowed to open the front or back cover of this camera.

Note:
In order to avoid electrical shock or fire, please use proper power according to the manual.

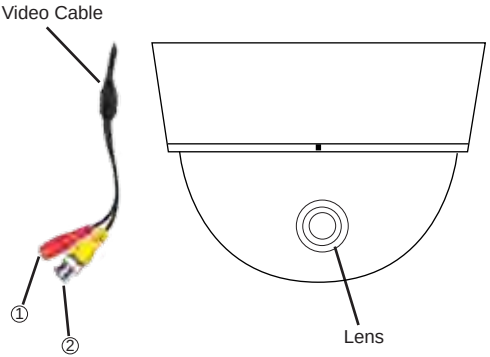
Features

- 650TV Lines.
- 2D-DNR
- OSD control.
- 0.03 Lux sensitivity
- Motion detection
- HLC
- Color rolling control
- Privacy masking

Precautions

1. Do not install the camera in places where the temperature is above 50°C or under -10°C.
2. Do not touch the CCD surface with your finger. If cleaning is needed, please wipe it using a soft cloth with a little bit of alcohol.
3. Do not install in places with high humidity, it can seriously damage the quality of the picture.
4. Do not drop the camera and the controller and avoid physical shock.
5. Do not face your camera to a strong light, it can damage the CCD.
6. Do not expose the camera to rain or dusty surroundings.
7. It's highly important to use the correct and suitable power supply (DC12V) for the camera.
8. Only professional and qualified technician can install and test this camera.
9. During use, if any errors occur, cut off the power immediately and contact your local distributor.

Structure and Components



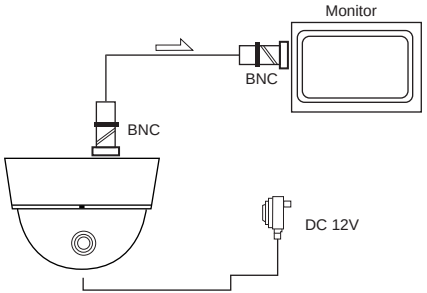
Color Camera
AES Auto Electronic Shutter Switch (Auto)
BLC Backlight Compensation Switch (Auto)
AGC Auto Gain Control Switch (Auto)
AWB Auto White Balance Switch (Auto)

Video Cable:
①Power Supply Socket
②Video out

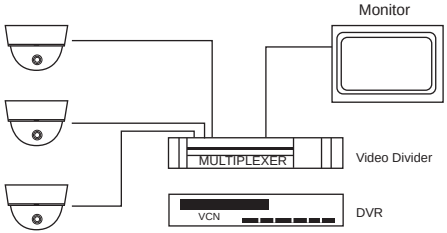
Operation Steps

(1) Confirm that the power supply for the camera is correct;
Connect①Power Supply Socket to the power supplier.
(2) Connect "Video Out"②of the camera to the monitor or other video equipment (DVR) with a 75 ohm cable (RG59).

System connection



① Use one camera and one monitor



②Use Several Cameras and one Monitor

OSD Main Menu

Main Menu

- Lens
  - Auto/Manual
- Shutter
  - Auto/Manual
- White Balance
  - ATW/Push/User1/User2/Anti CR/Manual
- Backlight
  - BLC/HLC/Off
- Picture Adjust
  - Mirror/Brightness/Contrast/Sharpness/HUE/Gain
- ATR
  - On/Off
- Motion Detect
  - On/Off
- Privacy
  - On/Off
- Day/Night
  - Auto/BW/Color
- NR
  - Mode/Y Level/C Level
- Camera ID
  - On/Off
- Sync
  - INT
- Language
  - English/Chinese/Deutsch/Francais/Russian/Portugues/Spanish

OSD Menu

▲ - Joystick Up – Moves the cursor upwards.
▼ - Joystick Down – Moves the cursor downwards.
◄ - Joystick Left – Moves the cursor to the left/change selection.
► - Joystick Right – Moves the cursor to the right/change selection.
O - Joystick button – Press the Joystick to execute selections and displays a Submenu for an item with the ↵ mark.

You can push "UP" and "DOWN" to browse the main function.
Push "LEFT" and "RIGHT" to change the value.
Press the joystick for sub-menus and more configurations.

- To enter the SETUP MENU press the Joystick button – "**O**",
  The menu will appear on the screen.

OSD Menu Operation

1) LENS

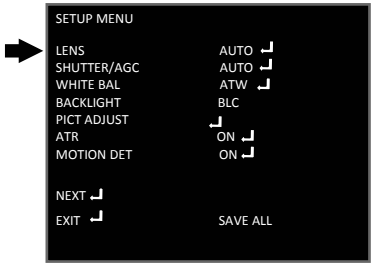
The LENS menu allows you to set the lens which attached to You're camera.

MANUAL IRIS LENS: Where the aperture is fixed or set manually by the user. Iris is mechanism which closes and opens allowing more or less light into the lens.

AUTO IRIS LENS: In which the aperture is continuously controlled by the camera to automatically set to the desired level of brightness.

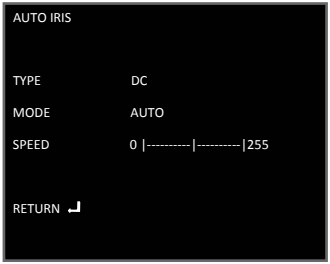
- When using a camera with a normal lens – set the LENS mode to MANUAL.
- When using an AUTO IRIS lens – set the LENS mode to AUTO.

- Scroll to LENS using ▲ or ▼.



- Use ◄ or ► to select AUTO and press O to enter the AUTO IRIS menu.

- Use ▲ or ▼to scroll the setup page.



- Use ◄ or ► to change different parameters:

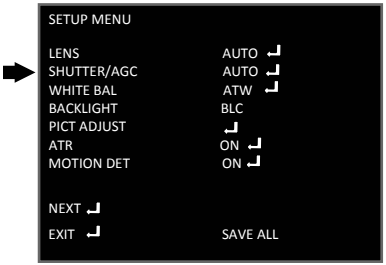
TYPE – you can select between 2 types of lens: DC or VIDEO.
MODE – adjusts the LENS mode to CLOSE/OPEN/AUTO.
SPEED –

2) a) SHUTTER/AGC

Here you can control **SHUTTER** function such as brightness level and **AGC** mode.
The shutter – Controls the amount of light according to your own environment. Increase SHUTTER value in dark places for a brighter picture,
Decrease SHUTTER value in places with more light for reducing amount of light.

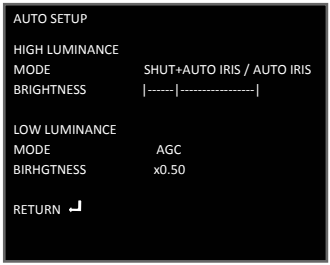
- You can choose Auto/Manual option and set brightness level, AGC level or mode on/off.

- Scroll to SHUTTER/AGC using ▲ or ▼.



- Press O to enter the SHUTTER/AGC menu.

- Use ◄ or ► to select Auto and press O to enter the AUTO SETUP menu.



HIGH LUMUNANCE

- **MODE** – Use ◄ or ► to set AUTO IRIS (Recommended).
- **BRIGHTNESS** – Use ◄ or ► to set brightness level between 0 – 255.

LOW LUMUNANCE

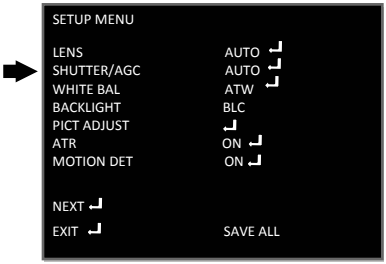
AGC level – At low lightning conditions, if the image is too dark – select higher AGC level which means that the camera would amplify the CCD input signal and make image will become brighter but noisier.

- **Mode** – Use ◄ or ► to use AGC mode or turn it OFF.
- **Brightness** - Use ◄ or ► to set brightness level between x0.25/ x0.50/ x0.75/ x1.0.

RETURN – Return to previous menu.

b) From the main menu
SHUTTER/AGC MANUAL SETTINGS.

- Scroll to SHUTTER/AGC using ▲ or ▼.



- Use ◄ or ► to select MANUAL and press O to enter the MANUAL SETUP menu.

- Use ▲ or ▼ to move up and down in the menu.
- Use ◄ or ► to change SHUTTER value between 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000.
- Use ◄ or ► to change AGC value between 6.00/ 12.00/ 18.00/ 24.00/ 30.00/ 36.00/ 42.00/ 44.80.

Remember

Increase SHUTTER value in dark places for a brighter picture,

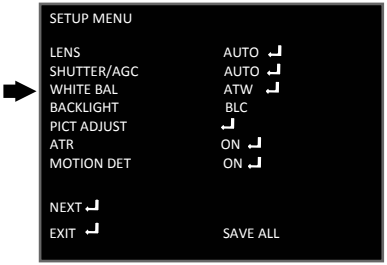
Decrease SHUTTER value in places with more light for reducing amount of light.

AGC At low lightning conditions, if the image is too dark – select higher AGC level.

3) WHITE BAL

White balance adjustment - adjust the white balance of color necessary for the correct reproduction of colors including white as white and other colors based on it. In changing light conditions (changing the color temperature of light), white balance needs to be done again.
White balance setting can be adjusted according to the color temperature of object.

- Scroll to WHITE BAL using ▲ or ▼.
- Use ◄ or ► to select between the different modes: ATW/ PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK (see explanations about different modes next page) :



a) ATW

Auto Tracing White Balance - Auto white balance of color, which tracks the changes of white at the pictures in real time, comparing it with standard white color and reproduce the colors without the need for manual setup.

- From main menu - Scroll to WHITE BAL using ▲ or ▼.
- Use ◄ or ► to select ATW and press O to enter ATW MENU.

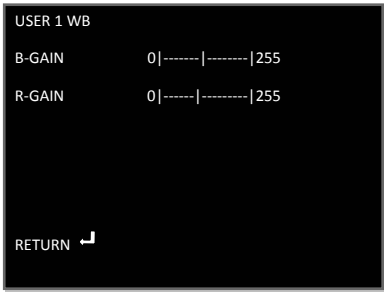
- Use ▲ or ▼ to navigate in the menu.
- Use ◄ or ► to change values of SPEED, DELAY CNT, ATW FRAME and ENVIRONMENT,
  According to your environment – Outdoor/Indoor.

b) USER 1/USER 2

Manually adjusts blue color lever and red color level.

B-GAIN – Blue color level.
R-GAIN – Red color level.

- **From main menu** - Scroll to **WHITE BAL** using ▲ or ▼.
- Use ◄ or ► to select **USER 1** and press **O** to enter **USER 1** menu.



- Use ▲ or ▼ to navigate in the menu.
- Use ◄ or ► to change values of B-GAIN and R-GAIN.

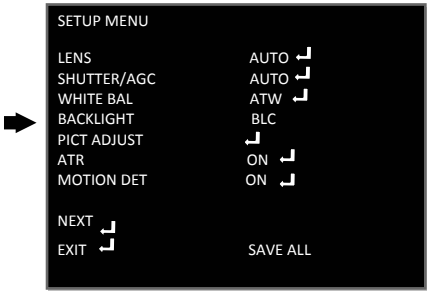
c) ANTI CR

- **From main menu** - Scroll to **WHITE BAL** using ▲ or ▼.
- Use ◄ or ► to select **ANTI CR**.

4) BACKLIGHT

You can select between the special backlights modes – BLC or HLC according to your envioroment or turn it off.
counter light, taillight, facilitating the photographed object to be separated from the background. Often with different color temperature compared with that of the front lighting, this creates a color perspective.

- Scroll to BACKLIGHT using ▲ or ▼.



- Use ◄ or ► to change BACKLIGHT value between HLC / BLC / OFF.

HLC (highlight compensation)

(function that suppresses strong headlights at night and improves visibility to provide clear images with superb picture quality.

BLC

The camera features a backlight compensation circuit that prevents the object in front of the light to become like a black shadow and to create clear detailed picture.

5) PICT ADJUST

In this page you can easily adjust picture parameters like Brightness, Contrast, Sharpness, HUE and Gain.
Also contain the MIRROR effect-for un-normal installations.

Example:

OFF

MIRROR

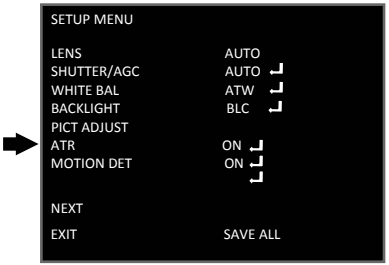
- Scroll to **PICT ADJUST** using ▲ or ▼.

- Press **O** to enter to **PICT ADJUST** menu.

6) ATR (Adaptive Tone Reproduction)

improves the ability to create more detailed picture in both high and low luminance areas exist in the same picture.
Here you can adjust luminance level (refers to both high and low luminance) and contrast level according to your envioronment.

- Scroll to ATR using ▲ or ▼.

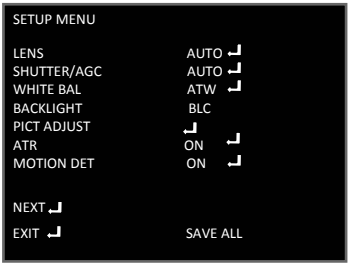


- Use ◄ or ► to select ON and press O to enter ATR menu.
  (You can use ◄ or ► to turn OFF the ATR option).

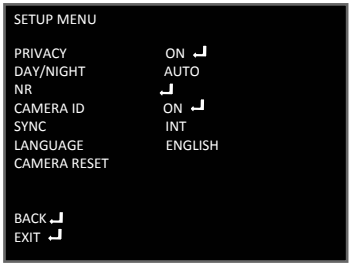
- Use ▲ or ▼ to navigate in the menu.

- Use ◄ or ► to LUMINANACE/CONTRAST value between **LOW/MID/HIGH.**

- Scroll to NEXT using ▲ or ▼.

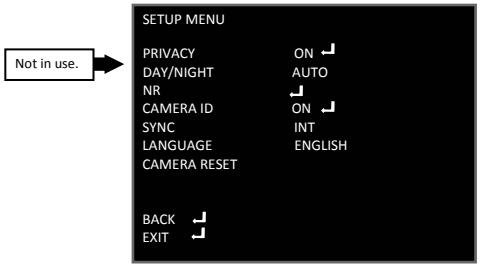


- Press **O** for next page,
- the second page of the setup menu will appear.



7) PRIVACY

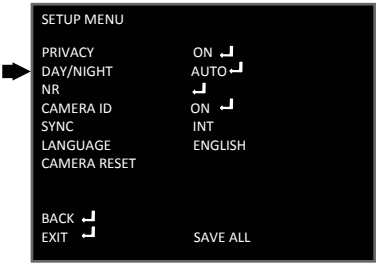
This function is aiming at the protection of personal privacy, you can select up to 4 parts on the screen to be masked with colored cover size and location of the area is also adjustable.



8) DAY/NIGHT

This option allow you to adjust your camera to the day or night mode to give maximum quality of picture.
You can select between **AUTO/COLOR/B/W.**

- Scroll to DAY/NIGHT using ▲ or ▼.



- Use ◄ or ► to select AUTO/COLOR/B/W.
  If selected AUTO or B/W, press O to enter the sub menu.

a) AUTO sub menu

BURST: Selects whether to output the burst signal when the B/W (NIGHT mode established (forcibly) status has been identified.

DELAY CNT: Sets the Night/Day identification transfer time.

DAY -> NIGHT: Sets the threshold for identifying the Night status from the Day status.

NIGHT -> DAY: Sets the threshold for identifying the Day status from the Night status.

- Use ▲ or ▼ to scroll in the menu.

b) B/W (Black/White) sub menu

For setting **BURST** mode **ON/OFF**.

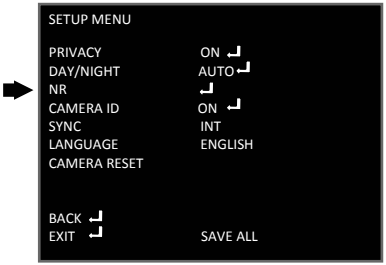
- Use ◄ or ► to change parameters value.

- Use ◄ or ► to change BURST mode ON/OFF.

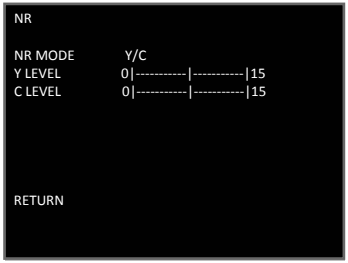
9) NR

This function is used to set the noise reduction function.

- Scroll to **NR** using ▲ or ▼.



- Press **O** to enter NR menu.
- Use ▲ or ▼ to scroll in the menu.



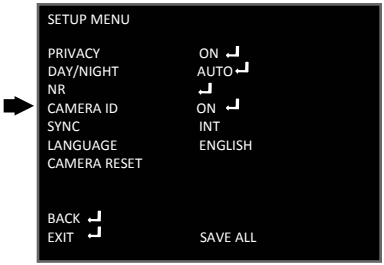
- Use ◄ or ► to change the parameters.
  (You can also switch **OFF** the **NR MODE**).

NR MODE - This function is used to set the noise reduction mode.
C LEVEL - Sets the Y filter strength.
Y LEVEL - Sets the Y filter strength.

10) CAMERA ID

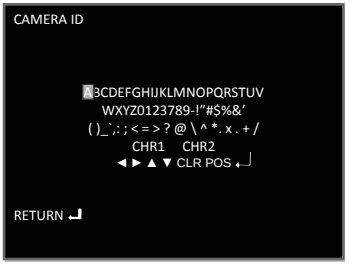
This option allows you to select a name for your camera and select rather it will be displayed or not.
If selected off the name will not be displayed.

- Scroll to **CAMERA ID** using ▲ or ▼.



- Use ◄ or ► to change **CAMERA ID** to **ON** and press **O** to enter the sub menu.
  You can select **OFF** if you don't want to display **CAMERA ID**.

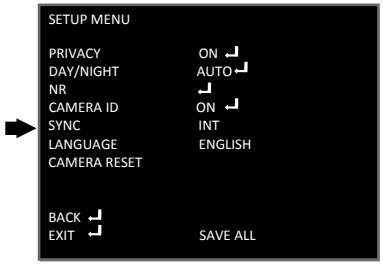
- Use ◄ / ► /▲ / ▼ to move the mark to select a name for your camera.
  To clear last note use **CLR (clear)**.
  Camera ID can contain more the one word or line.
  Use ▲ / ▼ to move the mark to different line.
  Use ◄/ ► to create space between the words,
  Or move the mark between different notes in the word.



- When finished go to **RETURN** and press **O**.

11) SYNC

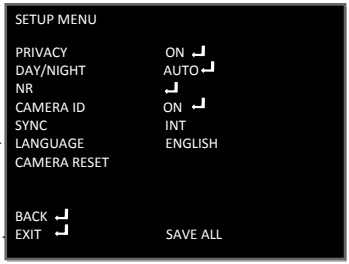
This option is not adjustable – it's always on. The Line-Lock (L/L) feature allows the camera to synchronize its frame rate to the power line phase. The function is only available when the camera is operated by AC power. It allows the reduction of the fluorescent lights color rolling effect. When using 12v DC power, the camera is automatically set to internal (INT) synchronization mode.



12) LANGUAGE

You can select different languages for the OSD to be displayed in: English, Chinese, Deutsch, France, Russian, Portuguese, Spanish.

- Scroll to LANGUAGE using ▲ or ▼.

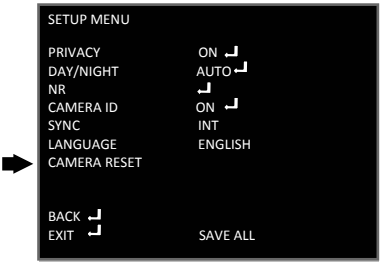


- Use

13) CAMERA RESET

Reset camera to default settings.

- Scroll to **CAMERA RESET** using ▲ or ▼.



- Press **O** to reset camera to default values.

Specifications

MODEL	DX-372CS	DX-372CSVF
Image Sensor	1/3" Sony DS CCD (PAL:ICX673AK/NTSC:ICX672AK)	
DSP System	CXD4127	
Effective Pixels	PAL:976(H)x582(V) / NTSC:976(H)x494(V)	
Scanning System	PAL/NTSC	
Horizontal Resolution	**650TVL**	
Min. Illumination	0.03 Lux / F1.0	
OSD Menu	Available(7 languages)	
Backlight Compensation	BLC/HLC/OFF selectable	
Sync. System	Internal	
S/N Ratio	≥48db (AGC Off)	
White Balance	ATW/PUSH/USER 1/USER 2/ANTI CR/MANUAL/PUSH CLOCK	
Gamma Correction	0.45	
Gain Control	Yes	
Motion Detection	On/Off(4 Zone)	
Privacy Masking	On/Off(4 Zone)	
Mirror(H-REV)	On/Off	
SHARPNESS	On/Off (Level Adjutable)	
D/N Selection	Color/B/W/Auto	
ATR	On/Off	
Noise Reduce	2D-DNR	
Picture Adjustment	Yes	
White Pixel Detection and Compensation	Static and Dynamic	
Automatic Adjustment of Mechanical Iris	Yes	
Analog Output	Y/C Separate video, Composite video	
Lens	3.6mm lens	4~9mm Vari-Focal lens
Power	DC12V±10% Max 2.0W	
Dimension	100W x 80H mm	
Net Weight	280g	

Specifications

MODEL	DA-372CS	DA-372CSVF
Image Sensor	1/3" Sony DS CCD (PAL:ICX673AK/NTSC:ICX672AK)	
DSP System	CXD4127	
Effective Pixels	PAL:976(H)x582(V) / NTSC:976(H)x494(V)	
Scanning System	PAL/NTSC	
Horizontal Resolution	**650TVL**	
Min. Illumination	0.03 Lux / F1.0	
OSD Menu	Available(7 languages)	
Backlight Compensation	BLC/HLC/OFF selectable	
Sync. System	Internal	
S/N Ratio	≥48db (AGC Off)	
White Balance	ATW/PUSH/USER 1/USER 2/ANTI CR/MANUAL/PUSH CLOCK	
Gamma Correction	0.45	
Gain Control	Yes	
Motion Detection	On/Off(4 Zone)	
Privacy Masking	On/Off(4 Zone)	
Mirror(H-REV)	On/Off	
SHARPNESS	On/Off (Level Adjutable)	
D/N Selection	Color/B/W/Auto	
ATR	On/Off	
Noise Reduce	2D-DNR	
Picture Adjustment	Yes	
White Pixel Detection and Compensation	Static and Dynamic	
Automatic Adjustment of Mechanical Iris	Yes	
Analog Output	Y/C Separate video, Composite video	
Lens	3.6mm lens	4~9mm Vari-Focal lens
Power	DC12V±10% Max 2.0W	
Dimension	115W x 90H mm	
Net Weight	520g	

Specifications

MODEL	DI-372CS(PL)	DI-372CS(FL)
Image Sensor	1/3" Sony DS CCD (PAL:ICX673AK/NTSC:ICX672AK)	
DSP System	CXD4127	
Effective Pixels	PAL:976(H)x582(V) / NTSC:976(H)x494(V)	
Scanning System	PAL/NTSC	
Horizontal Resolution	**650TVL**	
Min. Illumination	0.03 Lux / F1.0 (0 Lux IR On), 24 IR Leds / 15mt	
OSD Menu	Available(7 languages)	
Backlight Compensation	BLC/HLC/OFF selectable	
Sync. System	Internal	
S/N Ratio	≥48db (AGC Off)	
White Balance	ATW/PUSH/USER 1/USER 2/ANTI CR/MANUAL/PUSH CLOCK	
Gamma Correction	0.45	
Gain Control	Yes	
Motion Detection	On/Off(4 Zone)	
Privacy Masking	On/Off(4 Zone)	
Mirror(H-REV)	On/Off	
SHARPNESS	On/Off (Level Adjutable)	
D/N Selection	Color/B/W/Auto	
ATR	On/Off	
Noise Reduce	2D-DNR	
Picture Adjustment	Yes	
White Pixel Detection and Compensation	Static and Dynamic	
Automatic Adjustment of Mechanical Iris	Yes	
Analog Output	Y/C Separate video, Composite video	
Lens	3.6mm lens	
Power	DC12V±10% Max 2.0W	
Dimension	92W x 69H mm	
Net Weight	160g	310g

Specifications

MODEL	DI-372CSVF
Image Sensor	1/3" Sony DS CCD (PAL:ICX673AK/NTSC:ICX672AK)
DSP System	CXD4127
Effective Pixels	PAL:976(H)x582(V) / NTSC:976(H)x494(V)
Scanning System	PAL/NTSC
Horizontal Resolution	**650TVL**
Min. Illumination	0.03 Lux / F1.0 (0 Lux IR On), 36 IR Leds / 25mt
OSD Menu	Available(7 languages)
Backlight Compensation	BLC/HLC/OFF selectable
Sync. System	Internal
S/N Ratio	≥48db (AGC Off)
White Balance	ATW/PUSH/USER 1/USER 2/ANTI CR/MANUAL/PUSH CLOCK
Gamma Correction	0.45
Gain Control	Yes
Motion Detection	On/Off(4 Zone)
Privacy Masking	On/Off(4 Zone)
Mirror(H-REV)	On/Off
SHARPNESS	On/Off (Level Adjutable)
D/N Selection	Color/B/W/Auto
ATR	On/Off
Noise Reduce	2D-DNR
Picture Adjustment	Yes
White Pixel Detection and Compensation	Static and Dynamic
Automatic Adjustment of Mechanical Iris	Yes
Analog Output	Y/C Separate video, Composite video
Lens	4~9mm Vari-Focal lens
Power	DC12V±10% Max 2.0W
Dimension	118W x 94H mm
Net Weight	730g